



CCCCCCCC CCCCCCCC SSSSSSSS SSSSSSSS TTTTTTTT TTTTTTTT RRRRRRRR RRRRRRRR I I I I I I NN NN GGGGGGGG  
CC CC SS SS TT TT RR RR RR RR I I I I NN NN GG  
CC CC SS SS TT TT RR RR RR RR I I I I NNNN NN GG  
CC CC SS SS TT TT RRRRRRRR RRRRRRRR I I I I NNNN NN GG  
CC CC SSSSSS SSSSSS TT TT RR RR RR RR I I I I NN NN GG  
CC CC SS SS TT TT RR RR RR RR I I I I NN NNNN GG GGGGGG  
CC CC SS SS TT TT RR RR RR RR I I I I NN NNNN GG GGGGGG  
CC CC SS SS TT TT RR RR RR RR I I I I NN NN GG GG  
CCCCCCCC CCCCCCCC SSSSSSSS SSSSSSSS TT TT RR RR RR RR I I I I NN NN GGGGGG  
CCCCCCCC CCCCCCCC SSSSSSSS SSSSSSSS TT TT RR RR RR RR I I I I NN NN GGGGGG

LL I I I I SSSSSSSS  
LL I I I I SSSSSSSS  
LL SS SS SSSSSS  
LLLLLLLLLL I I I I SSSSSSSS  
LLLLLLLLLL I I I I SSSSSSSS

```

0000 1 : ****
0000 2 : ****
0000 3 : ****
0000 4 : * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 5 : * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 6 : * ALL RIGHTS RESERVED.
0000 7 : *
0000 8 : * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 9 : * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 10: * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 11: * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 12: * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 13: * TRANSFERRED.
0000 14: *
0000 15: * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 16: * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 17: * CORPORATION.
0000 18: *
0000 19: * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 20: * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 21: *
0000 22: *
0000 23 : ****
0000 24 : *
0000 25 : *
0000 26 : *
0000 27 : AUTHOR BRIAN PORTER      CREATION DATE 10-AUG-1979
0000 28 : *
0000 29 : *
0000 30 : *
0000 31 : *
0000 32 : .TITLE STRING
0000 33 : .IDENT /V04-000/
0000 34 : *
0000 35 : .PSECT STRING
0000 36 : *
0000 37 : .ENTRY CSTRING ^M<R2,R3,R4,R5,R6>
0000 38 : *
0000 39 : DIVL3 #8,04(AP),R0
0000 40 : MOVAB BUGST_MESSAGES,R6
0000 41 : 122$: MOVZBL (R6)+,R2
0000 42 : ADDL R2,R6
0000 43 : SOBGTR R0 122$
0000 44 : MOVZBL #72,012(AP)
0000 45 : CMPB (R6)+,#72
0000 46 : BGTR 124$
0000 47 : MOVZBL -(R6),012(AP)
0000 48 : TSTB (R6)+
0000 49 : 124$: MOVC3 012(AP),(R6),08(AP)
0000 50 : RET
0000 51 : *
0000 52 : .END

```

50 04 BC 08 C7 0002	39	DIVL3 #8,04(AP),R0	FIND THE MESSAGE CODE
56 00000000'EF 9E 0007	40	MOVAB BUGST_MESSAGES,R6	USE IT TO INDEX INTO MSG TABLE
52 86 9A 000E	41	MOVZBL (R6)+,R2	STEP THROUGH TABLE
56 52 C0 0011	42	ADDL R2,R6	
F7 50 F5 0014	43	SOBGTR R0 122\$	
OC BC 48 8F 9A 0017	44	MOVZBL #72,012(AP)	MAXIMIZE LENGTH IN BUGMSG LENGTH
48 8F 86 91 001C	45	CMPB (R6)+,#72	IS MSG LONGER THAN 72 CHAR
06 14 0020	46	BGTR 124\$	IF GTR NO
OC BC 76 9A 0022	47	MOVZBL -(R6),012(AP)	PUT LENGTH IN BUGMSG_LENGTH
86 95 0026	48	TSTB (R6)+	
08 BC 66 OC BC 28 0028	49	124\$: MOVC3 012(AP),(R6),08(AP)	COPY STRING TO BUGMSG_TEXT
04 002E	50	RET	
002F	51		
002F	52	.END	

## STRING Symbol table

BUG\$T MESSAGES \*\*\*\*\* X 01  
CSTRING 00000000 RG 01

G 5

15-SEP-1984 23:56:15 VAX/VMS Macro V04-00  
5-SEP-1984 13:51:10 [ERF.SRC]CSTRING.MAR;1

Page 2  
(1)

+-----+  
! Psect synopsis !  
+-----+

PSECT name

## Allocation PSECT No. Attributes

ABS . 00000000 ( 0.) 00 ( 0.) NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE  
STRING 0000002F ( 47.) 01 ( 1.) NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

## ! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	32	00:00:00.07	00:00:00.44
Command processing	124	00:00:00.42	00:00:02.29
Pass 1	67	00:00:00.28	00:00:00.70
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	28	00:00:00.18	00:00:01.01
Symbol table output	1	00:00:00.01	00:00:00.02
Psect synopsis output	1	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	256	00:00:00.98	00:00:04.47

The working set limit was 900 pages.

760 bytes (2 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 2 non-local and 2 local symbols. 52 source lines were read in Page 1, producing 16 object records in Page 2.

52 source lines were read in Pass 1, producing 14 object records in Pass 2. 0 pages of virtual memory were used to define 0 passes.

0 pages of virtual memory were used to define 0 macros.

-----  
! Macro Library statistics !  
-----

### Macro Library name

## Macros defined

\$255\$DUA28:[SYSLIB]STARLET.MLB:2

0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

**MACRO/LIS=LIS\$:cstring/OBJ=OBJ\$:cstring MSRC\$:cstring/UPDATE=(ENH\$:cstring)**

0147 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

CLASSIFY  
LIS

CSTRING  
LIS

DHEADS  
LIS

DR250  
LIS

DR280  
LIS

DR11W  
LIS

DTAILS  
LIS

DUMPREG  
LIS

DUTUDRIVR  
LIS

DUP3221  
LIS

DUP11  
LIS

DQDISKS  
LIS

CRYPTK  
LIS

COMPRESS  
LIS

DECODECC  
LIS

CALCMAP  
LIS